### DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

# WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-018633 Address: 333 Burma Road **Date Inspected:** 14-Dec-2010

City: Oakland, CA 94607

**OSM Arrival Time:** 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

**CWI Name: CWI Present:** Yes Lv Li Qing No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No **Weld Procedures Followed:** Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No Yes N/A **Delayed / Cancelled:** No

34-0006 **Bridge No: Component:** OBG

## **Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector, Nagalingam Pandaram Pillai was present during the times noted above for observations relative to the work being performed.

Magnetic Particle Testing:-

### BAY#14

This QA inspector performed Magnetic Particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control Personnel. This QA Inspector generated an MT report for this date. The member is identified as OBG Segment 13 Longitudinal Diaphragm. The weld designation reviewed is as follows:

### LD3041-001-413

This QA inspector performed Magnetic Particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control Personnel. This QA Inspector generated an MT report for this date. The member is identified as OBG Segment 13 CE Deck Panel . The weld designation reviewed is as follows:

DP3099-001-008, 018, 026, 036, 037, 060, 061, 070, 086, 087, 096, 097, 104, 123, 122 DP3099-001-010, 011, 015, 032, 034, 035, 041, 042, 063, 067, 076, 068, 083, 084 DP3099-001-088, 089, 093, 094, 101, 115, 119, 120, 135, 136, 007, 014, 033, 040, 056, 059, 077, 082, 085, 121, 126, 129, 134

# WELDING INSPECTION REPORT

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In process Inspection:-

**BAY#14** 

This QA Inspector observed the following work in progress:

FCAW in the 2G position for the OBG Segment 13BE Bottom Panel to Longitudinal Diaphragm. The weld joint was designated as: SEG3009M-118. The welder is identified as #044824. ZPMC QC is identified as Mr. Zhang Yong Gang. The welding variables recorded by QC appear to comply with WPS-B-T-2232-ESAB.

This QA inspector observed the following work in progress:

FCAW welding of weld joint no: DP3106-001-042 located on OBG Segment 13 Deck panel. Welder is identified as #066746. ZPMC QC is identified as Mr. Zhong Guo Hui. Welding was performed according to the weld repair report B-WR18704. The welding variables recorded by QC appeared to comply with the WPS-345-FCAW-2G(2F)-ESAB-Repair.

This QA inspector observed the following work in progress:

SMAW welding of weld joint no: SEG3011C-098 located on OBG Segment 13CE Floor Beam to Bottom panel stiffener. Welder is identified as #066326. ZPMC CWI is identified as Mr. Lv Li Qing. Welding was performed according to the weld repair report B-WR17125. The welding variables recorded by QC appeared to comply with the WPS-345-SMAW-3G(3F)-FCM-Repair-1. Please see the attached picture.

This QA Inspector observed the following work in progress:

SMAW in the 4F position for the OBG Segment 13BE Longitudinal Diaphragm Stiffeners. The weld joint was designated as: SEG3009K-189. The welder is identified as #067765. ZPMC QC is identified as Mr. Wang Xu. The welding variables recorded by QC appear to comply with WPS-B-P-2114-FCM-1. Please see the attached picture.

This QA Inspector observed the following work in progress:

SMAW in the 2F position for the OBG Segment 13CE Longitudinal Diaphragm Stiffeners. The weld joint was designated as: SEG3011M-192. The welder is identified as #067611. ZPMC QC is identified as Mr. Wang Xu. The welding variables recorded by QC appear to comply with WPS-B-P-2112-FCM-1.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

# WELDING INSPECTION REPORT

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# **Summary of Conversations:**

No Relevant Conversation.

#### **Comments**

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 150-0042-2372, who represents the Office of Structural Materials for your project.

<b>Inspected By:</b>	Pillai,Pandaram	Quality Assurance Inspector
Reviewed By:	Patel, Hiranch	QA Reviewer